T. 12645-63

ACCESSION NR: AP3002702

8/0080/63/036/005/1057/1063

AUTHOR: Romanov, V. V.

TITIE: Analysis of the cause of sinc sponge formation in the electrolysis of zincate solutions

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 5, 1963, 1057-1063

TOPIC TAGS: zine sponge formation, dendrite deposition, sine deposition, sine plating.

ABSTRACT: Previous work by the author(Zh. P. Kh. Vol. 34, no. 12, 1961, 2692) showed that electrolysis of zincade solutions with variable half-wave current gave deposits without dendrites. The explanation for this derived from the present work, is that with a constant current at low cathodic current densities, an insufficient number of easily discharged zinc particles (the less-hydrated zinc particles with a smaller negative charge), is admitted into the pre-cathodic layer. This is substantiated by addition of traces of Pb or other metals which catalytically decompose the more highly hydrated zinc. The variable current improves conditions for filling the precathodic layer with less hydrated Zn particles, either by diffusion from the main solution or by decomposition of the more hydrated.

Card 1/2/

KUDINOVA, N.I.; ROMANOV, V.V.

Effect of polarization on the corrosion cracking of brass in a mercury medium. Zhur, prikl. khim. 36 no.11:2465-2469 N '63. (MIRA 17:1)

8/0081/63/000/023/0354/0354

ACCESSION NR: AR4015687

SOURCE: RZh. Khimiya, Abs. 23K77

AUTHOR: Narushevich, N. I.; Balezin, S. A.; Romanov, V. V.

TITLE: Effect of some inhibitors on the resistance to corrosive cracking of aluminum

alloy V-95

CITED SOURCE: Uch. zap. Mosk. gos. ped. in-t im. V. I. Lenina, no. 181, 1862, 183-199

TOPIC TAGS: corrosion, corrosion resistance, corrosion inhibitor, aluminum, aluminum corrosion, alloy V-95, aluminum alloy

TRANSLATION: It has been determined that it is possible, by means of inhibitors, to protect Al alloy V-95 from corrosive cracking in a mixture of 0.5 N H₂SO₄ with 35 g/l NaCl under stresses of 43 kg/mm². Corrosive cracking of the alloy is retarded most effectively by the following inhibitors (at 1% concentrations): DBS, thiourea, PB-5, BA-12 pyridine, K₄ [Fe(CN)₆], KI. Their inhibitory effect is equal to 28, 15, 8.8, 7.3, 9.2, 6.4, and 5.7, respectively. A mixture of 1% DBS and 0.1% KI retards the disintegration

_Cord_1/2

ACCESSION NR: AR4015690

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SOURCE: RZh. Khimiya, Abs. 23K80

AUTHOR: Narushevich, H. I.; Balezin, S. A.; Romanov, V. V.

TITLE: The effect of inhibitors on corrosive cracking of aluminum alloy V-95

CITED SOURCE: Uch. zap. Mosk. gos. ped. in-t im. V. I. Lenina, no. 181, 1962, 341-355

TOPIC TAGS: corrosion, corrosive cracking, corrosion inhibitor, aluminum corrosion, aluminum alloy, alloy V-95

ABSTRACT: The protective action of the most effective inhibitors of corrosive cracking of Al-alloy V-95 in a mixture of 0.5 N H₂SO_L with 35 g/l NaCl is related to retardation of the cathode reaction. The explanation presented of the effect of inhibitors on the corrosion process and corrosive cracking of the investigated alloy is based on electrochemical concepts as to the nature and mechanism of corrosive cracking of metals. Authors' summary

DATE ACQ: 09Jan64

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445230002-0"

CATHERING AND CONTROL OF THE PROPERTY OF THE P ROMANOV, Vladislav Vasiljevic, inz. Modern methods of electric signal recording. Sdel tech 11 no.11; 414-416 N'63.

ACC NR:		/EWP(w)/T/EWP(t (N)		UR/0000/65/000/000/0347/0353
AUTHOR:	Kudinova, N.	I.; Romanov, V.	<u>v.</u>	38 B+1
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TITLE:	Nature of the	brittle failure	of steel in acid me	odia
cheskiye chimii (i oksidnyye p Protective met	okrytiya, korroz	iya metallov i issl coatings, corrosion	nimii. Zashchitnyye metalli- ledovaniya v oblasti elektro- n of metals, and studies in
COPIC TA	GS: brittlene	ss, stress corro	sion, chromium stee	or, rupture strength/1Kh13
ESTRACT	: The object	of the study was h of a metal (1K	to determine the n	nature of the decrease in the under conditions where fail-
re due To this colarizi cion sti	to stress corrend, the dependence of the depende	dence of the rat studied in 0.1 om temperature.	nd hydrogen brittle e of failure of 1Kh N H ₂ SQ, (containing The brittle failur	ness/1s basically possible. 13 steel on the density of the 4 g/l Na ₂ S as the hydrogena- e of 1Kh13 steel under stress
ydrogen hromium	brittleness. steels in aci	The view held by d media is relat	y other authors tha ed to hydrogen brit	the nature of the failure of the teness is considered errone-
us. A	plot of the ra	te of brittle fa	ilure of the metal	versus the density of the po-

as relationship in the stress corrosion cracking of metals permit one to make a distinction between stress corrosion cracking and certain other destructive which may be acting during the corrosion of metals under stress. Orig. art. Figures and 1 table.	gous relationship in the stress corrosion cracking of metals permit one to make a ble distinction between stress corrosion cracking and certain other destructive ors which may be acting during the corrosion of metals under stress. Orig. art. 3 figures and 1 table.	rizing current, and comparison of this curve with a typical curve characterizing the alogous relationship in the stress corrosion cracking of metals permit one to make a liable distinction between stress corrosion cracking and certain other destructive ctors which may be acting during the corrosion of metals under stress. Orig. art. s: 3 figures and 1 table. B CODE: 11/ SURM DATE: 12Aug63/ ORIG REF: 010/ OTH REF: 010	_	AC		R:	ΛT	602	4977	,																					
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	L 46321-66 EWT(m)/EWP(w)/T/EWP(t)/ETT LJF(c) JD/48/3D/JF ACC NR: AT6024979 (N) SOURCE CODE: UR/0000/65/000/000/0415/0420
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	AUTHOR: Pushkina, S. V.; Romanov, V. V.
	ORG: none
1	TITLE: Influence of stresses and tomperature on the polarization effect associated with the corrosion fatigue of MA-2 magnesium alloy in chloride-chromate solution SCURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metalli-
	cheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektro- khimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 415-420
	TOPIC TAGS: magnesium alloy, stress corrosion, electric polarization, metallography, latigue atmost h/MA-2 clay ABSTRACT: A study of the influence of cyclic stresses on the polarization effect asso-
	ciated with the corrosion-fatigue failure of MA-2 magnesium alloy (3.65% Al, 0.85% Zn, 0.50% in) in a solution containing 35 g/l NaCl + 20 g/l K2CrO4 at 25° showed that as the stress level decreases, the effectiveness of the polarization increases. Under the same conditions, with $\sigma_{-1} = 21.4 \text{ kg/cm}^2$, the effectiveness of the polarization in-
	creases as the temperature is lowered from 25 to 5° and raised to 35°. Fetallographic studies showed that both in the case of fatigue of MA-2 alloy in air and in the case of its corrosion fatigue in the NaCl-KoCrQu solution, the failure is of composite, primar-
-	ily intracrystalline character. Cathodic polarization shifts the corrosion-latigue
	Card 1/2

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EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) L 46835**-**66 SOURCE CODE: UR/0000/65/000/000/0421/0424 ACC NR: AT6024980 AUTHOR: Pushkina, S. V.; Romanov, V. V. ORG: none TITIE: Influence of stresses and temperature on the polarization effect associated with the corrosion fatigue of V-95 alloy in a solution of 0.05 N H₂SQ₄ + 35 g/1 NaCl SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metallicheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrokhimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 421-424 TOPIC TAGS: electric polarization, stress corrosion, aluminum alloy / V-95 ollo } ABSTRACT: The corrosion behavior of V-95 aluminum alloy subjected to symmetrical bending at 500 cycles per minute was studied in a solution of 0.05 N H2SO4 + 35 g/1 NaCl to determine the influence of these stresses on the polarization effect involved in the corrosion fatigue of the alloy. It was found that as the stress level is lowered, the effectiveness of the cathodic and anodic polarization increases. As the temperature rises from 25 to 55° at $\sigma_{-1}=32~{\rm kg/mm^2}$, the effectiveness of cathodic polarization increases, and that of anodic polarization decreases somewhat. The failure of the alloy under the selected conditions has a composite, primarily intracrystalline character. The results prove the existence of a substantial influence of secondary 1/2

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IJP(c)JD/WB/GD/RM/JH EWT(m)/EWP(w)/EWP(j)/T/EWP(t)/ETI L 46839+66 SOURCE CODE: UR/0000/65/000/000/0425/0429 ACC NR: AT6024981 (//) 48 Pushkina, S. V.; Balezin, S. A.; Romanov, V. V. BH ORG: none TITIE: Effect of corrosion inhibitors on the corrosion fatigue of MA-2 alloy SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metallicheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrokhimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 425-429 TOPIC TAGS: corrosion inhibitor, corrosion protection, magnesium alloy, cathode polarization, cyclic strength /MA-2 ollow ABSTRACT: The object of the work was to determine the influence of an inorganic and organic inhibitor on the corrosion fatigue of MA-2 magnesium alloy (in 4: Al 3.65, Zn 0.85, Mn 0.5, bal. Mg) in a chloride-chromate solution (35 g/l NaCl + 20 g/l K2CrO4) at 25°C; to study the combined effect of cathodic polarization and corrosion inhibitors on this process; and to clarify the influence of corrosion inhibitors on the cathodic polarization effect involved in the corrosion-fatigue failure of MA-2 alloy in the selected corrosive medium. The specimens were subjected to symmetrical bending at 500 cycles per minute. It was found that sodium nitrite and benzoate effectively increase the resistance of MA-2 to corrosion-fatigue failure. This pro-

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IJP(c) JD/WB/JH EWT(m)/EWP(w)/T/EWP(t)/ETI T. 46838-66 ACC NR₁ SOURCE CODE: UR/0000/65/000/000/0429/0434 AT6024982 AUTHOR: Pushkina, S. V.; Romanov, V. V. ORG: none TITLE: Influence of the corrosive medium on the polarization effect associated with the corrosion fatigue of V-95 alloy SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metalli cheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrokhimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 429-234 TOPIC TAGS: aluminum alloy, electric polarization, corrosion /V-95 ollow ABSTRACT: The influence of sulfuric acid concentration in a system of NaCl + H2SQu solutions on the volarization effect associated with the corrosion fatigue of V-95 aluminum alloy (in 5: Zn 5.35, Mg 2.30, Cu 1.30, Mn 0.33, Cr 0.13, bal. Al) was investigated at two stress levels (symmetrical bending at 500 cycles per minute): (1) above the vibration strength in air $(\sigma_{-1} = 32 \text{ kg/mm}^2)$ and (2) close to it $(\sigma_{-1} = 16 \text{ kg/mm}^2)$. It was found that as the HoSO4 concentration increases at both stress levels, the effectiveness of cathodic and anodic polarization decreases. This decrease and that of the time to failure of the specimens with increasing H2SQ, concentration in NaCl solution in the absence of polarization are attributed to an increased effectiveness of Card 1/2

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SOURCE CODE: UR/0080/66/039/010/2261/2266

AUTHOR: Romanov, V. V.

ORG: none

TITLE: Methods of preparation of the positive electrode of a dry-charged silverzinc storage battery

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 10, 1966, 2261-2266

TOPIC TAGS: storage battery, silver zinc battery, battery component, electrode, silver, electrice design

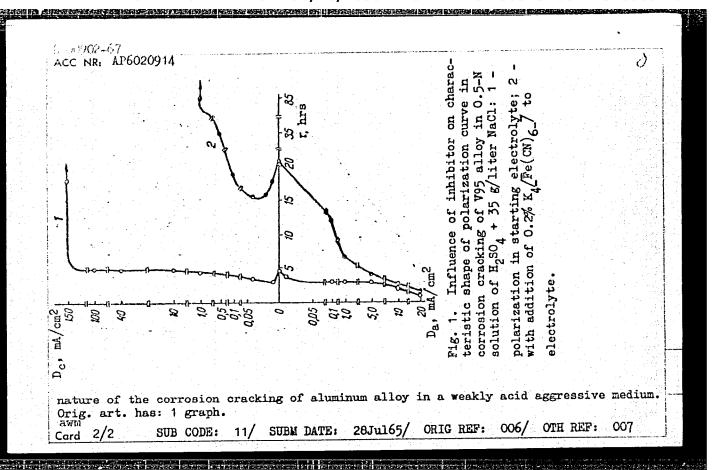
ABSTRACT: Experiments were described which showed that the time required for starting a silver-zinc storage battery may be cut to 24 hr by preforming of the positive (silver) electrode. The preparation and preforming of silver electrodes were described. The silver electrodes were made of compressed silver powder and preformed in KOH electrolyte by application of asymmetric current during two charge periods. The experimental dry-charged battery with 0.6 A-h, which contained the silver electrode preformed as described, during 10 cyclings showed a performance superior to that of a battery in which the silver electrodes were made of chemically prepared silver dioxide. The utilization factor of silver in the same dry-charged battery was the highest (72.5%) with the positive electrode made of silver powder which was prepared by thermal decomposition of silver acetate. These electrodes

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L 00902-67 EWT(m)/T/EWP(t)/ET m\w\nt ACC NR: AP6020914 SOURCE CODE: UR/0369/66/002/002/0180/0182 AUTHORS: Narushevich, N. I.; Balezin, S. A.; Romanov, V. V. Institute of Metallurgy im. A. A. Baykov, Moscow (Institut metallurgii) ORG: TITLE: The effect of a corrosion inhibitor on the polarization effect in corrosion cracking of V95 aluminum alloy Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 180-182 TOPIC TAGS: corrosion inhibitor, corrosion, corrosion rate, aluminum alloy, cathode polarization, current density, electrolyte / V95 aluminum alloy ABSTRACT: The results of a study of the effect of polarization on the rate of corrosion cracking of V95 aluminum alloy are given. Standard sheet alloy with a thickness of 1.5 mm was used. The chemical composition of the alloy, the preparation of the specimens, and the testing conditions were described earlier by N. I. Narushevich, S. A. Balezin, and V. V. Romanov (Ingibitory korrozii metallov, Uchenyye zapiski MGPI im. V. I. Lenina, No. 2, M., 1962). The tests were made under a load $\sigma_{0.2} = 43 \text{ kg/mm}^2$ at a temperature of 23C. The corrosive medium was a 0.5-N solution of $H_2SO_4 + 35$ g/liter NaCl, and the inhibitor was an admixture of $0.2\% K_A/\bar{F}e(CN)_6/J$. Cathode polarization in the absence of an inhibitor at low current densities accelerates corrosion (see Fig. 1). The obtained data confirmed the electrochemical Card 1/2



Theory of electrolysis by ripple current. Zhur. prikl. khim. 36 no.5:1050-1056 My '63. (MIRA 16:8	3)
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ROMANOV, V.V.

Investigating the causes of the formation of a zinc spongy coating during the electrolysis of zincate solutions. Zhur. prikl. khim. 36 no.5:1057-1063 My '63. (MIRA 16:8)

(Electrolysis) (Zincates)

 $\frac{32927-09}{2} \quad \text{ENT}(a)/\text{ENT}(b)/\text{ETI} \quad 13F(c)$ JH/JD/JG/AB ACC NR. AP6020915 SOURCE CODE: UR/0369/66/002/002/0183/0187 AUTHOR: Drite, M. Ye.; Kadaner, E. S.; Orekhova, A. N.; Romanov, ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii TITLE: Effect of small additions of copper and silver Al-Zn-Mg alloys SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 183-187 TOPIC TAGS: aluminum alloy, zinc containing alloy, magnesium containing alloy, copper containing alloy, silver containing alloy, alloy corrosion, stress corrosion, corrosion resistance ABSTRACT: A Cold- and hot-rolled sheets (2.5 mm thick) of high strength Al-Zn-Mg alloy containing a total of 7.5% Zn and Mg at a Zn/Mg ratio of 2, 0.6% Mn, 0.15% Zr, 0.2% Fe and 0.1% Si, and additionally alloyed with 0.3% each Cu and Ar, were tested for resistance to general and stress corrosion. Test specimens were solution annealed at 450C for 30 min, water quenched, and aged at 1400 for 24 hr (temper T6) which ensured the highest strength characteristic of the alloy. Stress tests done in a 30 g/l NCl + 20 g/l NaHCO3 solution under a stress equal to 0.8 of the yield strength showed that the initial alloy failed in 23 hr, Card 1/2

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L 10452-66 EWT(1)/EWA(b) ACC NR: AR5027567	SOURCE CODE: UR/0274/65/000/008/B071/B071	V III
SOURCE: Ref. zh. Radiotekhnika i ele	ektrosvyaz¹, Abs. 88508	
UTHOR: Romanov. V. V.		
of signals	a dielectric surface for electrostatic recording	
ITED SOURCE: Tr. Uchebn. in-tov sv	yasi. H-vo svyasi SSSR, vyp. 23, 1964, 183-193	
TOPIC TAGS: electrostatic recording	, electric charge	
TRANSLATION: The mechanism of placi- electrostatic recording is consider	ing charges on a dielectric surface for purposes of red. It is demonstrated that field emission or pending on the air-gap length and the electrode red for charge placing is calculated, and some	12
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	. 하는 사용 등에는 이후 경찰 하는 등이 되는 것이 모든 그리고 되었다. 것이 나는 이후 경찰 경찰 이후 기를 받는 것이 되었다.	
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L 2658-66 EWT(m)/EPF(c)/EWA(d)/EWP(t)/EWP(z)/EWP(b)IJP(c) MJW/JD/WB/GS ACCESSION NR: AT5023093 UR/0000/65/000/000/0130/0136 AUTHOR: Romanov, V. V. TITLE: Effect of calcium, manganese, cadmium, resistance of magnesium to corrosion cracking tin, lead, and bismuth on the 55,44 21 SOURCE: Problemy bol'shoy metallurgii i fizicheskoy khimii novykh splavov (Problems of large-scale metallurgy and physical chemistry of new alloys); k 100-letiyu so dnya rozhdeniya akademika M. A. Pavlova. Moscow, Izd-vo Nauka, 1965, 130-136 TOPIC TAGS: magnesium, corrosion cracking, solid solution, corrosion resistance, electrochemical analysis ABSTRACT: The present article is a continuation of a previous investigation (V. V. Romanov, ZhPKh, 35, 3, 795, 1952) with the difference that it provides data on the effect of certain other elements (in the solid-solution range) on resistance to corrosion cracking and corrosion of Mg in a 35 g/liter NaCl solution as well as in the same solution acidified with 0.01 N H2SO4 in the presence of stresses equal to 0.81% of yield point. It is established that: a) within Card 1/2

L 2658-66 ACCESSION NR: AT5023093

the limits of the solid solution Cd and Mn cause no corrosion cracking of Mg; b) within the same limits, Pb, Sn, and Bi cause corrosion cracking of the metal. On the basis of these findings, as well as of those of the previous investigation, the investigated elements may be classified as follows according to the degree to which they reduce the resistance of Mg to corrosion cracking: Zm > Cu > Al > / Bi > Sn >> Ca? Cd; Mnr? Since the investigated elements did not appreciably affect the strength properties of Mg, their effect on the resistance of Mg to corrosion cracking is tentatively associated with their effect on the electrochemical characteristics of this metal or, more exactly, in physical terms, on the properties of the protective films. Any more detailed evaluation of these findings is considerably more difficult than in the previous investigation, because of the lack of exhaustive data on the effect of the investigated elements on the electrochemical inhomogeneity of the structure formed by alloying, as well as on the mechanism of this effect on the corrosion of Mg in the media selected. "The author is indebted to V. V. Dobrolyubov and L. N. Tarasova for their assistance in performing the experimental part of this project. Orig. 4rt. has: 10 tables. ASSOCIATION:

none

SUBMITTED: 00

NO REF SOV:

ENCL: 00

SUB CODE:

L 2657-66 PMT(m)/EPF(c)/EWA(d)/EWP(j)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/WW/WB/GS/RM

ACCESSION NR: AT5023094

UR/0000 /65/000/000/0137/0151 4

AUTHOR: Narushevich, N. I.; Balezin, S. A.; Romanov, V. V.

TITLE: Nature and mechanism of the effect of corrosion inhibitors on the corrosion cracking of magnesium alloys

SOURCE: Problemy bol'shoy metallurgii i fizicheskoy khimii novykh splavov (Problems of large-scale metallurgy and physical chemistry of new alloys); k 100-letiyu so dnya rozhdeniya akademika M. A. Pavlova. Moscow, Izd-vo Nauka, 1965, 137-151

TOPIC TAGS: corrosion inhibitor, magnesium base alloy, organic salt, sodium compound, electrochemical analysis, potassium compound

ABSTRACT: Specimens of the Mg-base alloy MA2-1 (4.43% A1, 1.12% Zn, 0.56% Mn, 0.006% Fe, 0.07% Si, 0.03% Cu, 0.0011% Ni, 0.002% Be), cut out of 1.5 mm thick sheets, were tested for corrosion cracking in a 35 g/liter NaCl + 20 g/liter K_2CrO_4 solution in the presence of tensile stresses in order to determine the effect of different inhibitors of corrosion cracking. Organic and inorganic

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L 2657-66

ACCESSION NR: AT5023094

inhibitors were used. The corrosion rate was determined by the gravimetric method with measurement of the maximum depth of corrosion foci, as well as with calculation of the number of corrosion pits on the surface of the specimen. Such organic inhibitors as phosphates, fluorides, silicates, and nitrates, when added in 1% concentration to the tested solution, proved to be satisfactory inhibitors of corrosion cracking, since not one of the tested specimens became corroded during the first 1.5-3 days whereas the control specimens became corroded within 2.5 min. Other salts (K4Fe(CN)6, K3Fe(CN)6, KI, Na2B407), which are good inhibitors of the corrosion cracking of aluminum alloys, do not affect the cracking of this Mg alloy. Of the organic compounds investigated, the best results were produced by the sodium salts of butyric, caproic, and benzoic acids, since they completely halted the process of the corrosion cracking of the alloy MA2-1 in the solution specified above. It was found that the effectiveness of salts of acids in the fatty series is in inverse proportion to the increase in the number of the functional groups (-COOH, -OH). Inhibitors were also tested in different combinations. Thus, sodium benzoate and sodium nitrite, taken in concentrations (0.5 and 1.5%) which do not assure reliable protection, when jointly added to the working solution, provide complete protection against the corrosion cracking of

Card 2/3

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AT5023094 ACCESSION NR:

the alloy MA2-1. During the second part of the experiments, the electrochemical behavior of the alloy MA2-1 in the same working solution was investigated in the presence of selected inhibitors. It was established that different inhibitors 16 differently affect the electrode potential and the kinetics of electrode processes: some, such as NaNO2, inhibit the anodic process, while others, such as Na2HPO4 and monoethanolamine benzoate, inhibit the cathodic process, and others still, such as NaF and NaC, H502 affect both processes simultaneously. Monoethanolamine benzoate, moreover, not only is a satisfactory corrosion retardant but also assures a more uniform rate of corrosion. Orig. art. has: 5 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00

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SUB CODE: 60. MM

NO REF SOV: 010

OTHER:

APPROVED FOR RELEASE: 06/20/2000

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SOV / 124-58-5-5573

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr. 5, p 94 (USSR)

AUTHOR:

Romanov, V. V.

TITLE:

Evaporation Computation by Means of a Simplified Heat-balance Method (Raschet ispareniya po uproshchennomu metodu teplovogo

balansa)

PERIODICAL: Tr. gos. gidrolog. in-ta, 1956, Nr 54 (108), pp 75-79

ABSTRACT:

This is a preliminary communication on the results obtained from a simplified heat-balance method for the estimation of evaporation. The suggested simplifications consist of the following:- 1) The expression for the evaporation (in mm/hr)

$$u = (R_{\delta} - Q_n) / [60(1 + 0, 64\Delta T / \Delta e)]$$

in terms of the radiation balance R_δ , flow of heat into the ground Q (cal/cm² hr), and the differences in temperature $\Delta T(^{\circ}C)$ and water-vapor pressure Δe (mb) at two levels in the atmospheric surface layer is directly applied to the monthly averages for every hour of a 24-hour period. Here:-2) The heat transfer into the ground Q_n is disregarded at first, but

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SOV / 124-58-5-5573

Evaporation Computation by Means of a Simplified Heat balance Method

then an approximated correction of the Q_n effect is introduced. This Q_n value is obtained by replacing the denominator of equation (1) with its monthly average value (24 mean values for each hour of the day). 3) The differences ΔT and Δ e are determined from the readings of the thermographs and the hygrographs installed at the two levels. 4) The radiation balance Rg is not obtained through instrument readings, but is calculated from the standard meteorological data. viz., $R_{\delta} = R_{a} - R_{e}$ where the absorbed radiation R_{a} is determined by A. P. Braslavskiy's and Z. A. Vakulina's empirical formula [Normy isparentya's poverkhnost: vodokhranilishch (Water-reservoir Surfaceevaporation Rates). Gidrometeoizdat, 1954] and the effective radiation Re according to T. V. Kiriilova's and Ye. D. Kovaleva's nomograms, [Tr. Gl. geofiz observ., 1951, Nr 27 (89)]. As a direct result of these simplifications the use of special instruments (remotely reading psychrometers, radiation-balance meters) is avoided, as well as the hourly calculations and the ensuing monthly-mean averaging. The sources of discrepancies resulting from the use of the proposed method are analyzed. Calculations are performed according to the simplified method. The averaged results of the calculations agree well with the results obtained by means of the water-balance method. No comparison is made with the results obtained by the usual heat-balance method. Comments by the reviewer: - Among the sources of discrepancies Card 2/3

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Evaporation Computation by Means of a Simplified Heat-balance Method

listed, the application of the nonlinear equation (1) to the averaged data is not mentioned. The corresponding discrepancy is small only when the 24-hour cycle of all the quantities entering into this equation varies only slightly over the given monthly observational period.

L. S. Gandin

- 1. Evaporation -- Mathematical analysis
- 2. Evaporation -- Temperature factors
- 3. Evaporation -- Meteorological factors

Card 3/3

IVANOV, K.Ye., doktor geogr. nauk, prof.; ROMANOV, V.V., kand. tekhn. nauk; SIDORKINA, L.M., kand.geogr. nauk; SHIFMAN, N.M., inzh.; BAVINA, L.G., inzh.; CALINOVSKATA, I.A., inzh.; KOZHINA, Z.M., red.; CHEPELKINA, L.A., red.; SHATILINA, M.K., red.; ERAYNINA, M.I., tekhn. red.

[Hydrological calculation in the drainage of bogs and swampy soils] Gidrologicheskie raschety pri osushenii bolot i zabolochennykh zemel'. Pod red. K.E.Ivanova. Leningrad, Gidrometeoizdat, nykh zemel'. [Supplement no.9. Maps] Prilozhenie no.9. Karty. 1963. 447 p. __[Supplement no.9. Maps] (MIRA 16:12)

1. Leningrad. Gidrologicheskiy institut. (Drainage)

- 1. HOMANOY V.V., ROZHANSKAYA, O.D.
- 2. USSR (600)

"Result of a Study of the Physical Properties of the Frozen Layer of Swamps." Trudy GGI, Issue 7, (61) 1948 (63-105).

9. Meteorologiya i Gidrologiya, No. 3, 1949. Report U-2551, 30 Oct 52

	ROMANOV, V.V.	
	Methods for determining water resources in an active layer and calculation of water cycles of swamps located on an elevated relief. Trudy GGI no.39:96-115 '53. Trudy GGI no.39:96-115 '53. (MIRA 11:4)	
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SOV/124-57-4-4493

小马马加克 化过程的过去式和过去分词

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 90 (USSR)

AUTHOR: Romanov, V. V.

TITLE: On the Problem of the Relationship Between Capillary and Seepage

Properties of Coarsely Porous, Structureless Soils (K voprosu o zavisimosti mezhdu kapillyarnymi i fil'tratsionnymi svoystvami

krupnoporistykh besstrukturnykh gruntov)

PERIODICAL: Tr. Gos. gidrolog. in-ta, 1955, Nr 48, pp 146-155

ABSTRACT: Presentation of an approximate method of determining the permea-

bility coefficient K for soil seepage and the flow rate of a capillary fluid flow rising to a height h above the ground-water table. The soil is regarded as a bank of capillary tubes of different diameters completely filled with liquid to a height $h = 2 \sigma / r_{\gamma}$

where r is the radius of a pore reduced to a circular cross section. A hyperbolic relationship for the vertical distribution of the liquid under conditions of capillary rise was established on the basis of the

assumption that the distribution of pores along the diameters is uniform, that the areas of different groups of pores having various

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diameters are equal, and that the cross-sectional area of water-filled

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On the Problem of the Relationship Between Capillary and Seepage (cont.)

pores at a height h is proportional to the moisture content at the same height. It should be noted that the assumed hyperbolic moisture distribution under conditions of capillary rise is in contradiction with laboratory and field observations [e.g., see Rode, A. A., Pochvennaya vlaga (Soil Moisture), Moscow, Izd-vo AN SSSR, 1952; Kovda, V. A., Proiskhozhdeniye i rezhim zasolennykh pochv (Origin and Behavior of Saline Soils), Vol I, Moscow, Izd-vo AN SSSR, 1946]. By taking into consideration the assumptions listed above, it is shown that it is possible to construct a curve w(r) representing the distribution of the soil pores by employing equation (1) in conjunction with a curve w(h) of the vertical distribution of moisture under conditions of capillary rise; in the process a "measure of the abundance of soil pores with radii smaller than a prescribed radius r_i'' , $a_1 = \Delta w_i / \Delta r_i$, is introduced, and it is suggested that a curve a(r) be plotted for the purpose of defining the distribution of pores. Utilizing the distribution curve, the author proposes the following two methods for the determination of the permeability coefficient K: 1) In cases when a soil with an unknown value of K possesses a pore-distribution curve that is geometrically similar to that of a soil for which the value of the permeability coefficient K_{\downarrow} is known, the Kozeny expression for the relationship between K and the porosity (m) is adopted and leads to the expression

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On the Problem of the Relationship Between Capillary and Seepage (cont.)

$$K/K_1 = (\frac{m}{m_1})^3 (\frac{1-m_1}{1-m})^2$$
 (2)

Formula (2) can not be considered justified, because it does not take into consideration the fact that according to Kozeny the magnitude of K is a function not only of m but of the size of the soil particles (viz., the square of the effective diameter of the particles) as well; 2) in other instances, when the piezometric gradient I=1 and the particles as well; 2) in other instances, when the piezometric gradient I=1 and the particles as well; 2) in other instances, when the piezometric gradient I=1 and the cally to the cross section of the current F=1, the value of K, which is equal numerically to the flow, is computed as a sum of the various flows Q_i passing (independently of each other) through pores with different radii; $Q_i = Br_i^2 \Delta w_i$ where B= constant, Δw_i is taken from the w(h) curve for various values of h_i , and r_i is determined in accordance with formula (1). The magnitude of the "capillary-flow rate at a height h" is computed with the aid of the formula

$$Q_{k} = \sum Q_{ki} \qquad (Q_{ki} = Q_{i} \frac{H_{i}^{-h}}{h}) \qquad (3)$$

where \mathbf{H}_i is the maximum height of capillary rise in pores having a radius of \mathbf{r}_i . The article does not provide an explanation of the type of motion involved. The gradient Card 3/4

SOV/124-57-4-4493

On the Problem of the Relationship Between Capillary and Seepage (cont.)

assumed corresponds to the case of a cut made through the soil at a height h above the level of the water table, maximal capillary forces, expressed in terms of the magnitude H_i, being developed in the plane of the cut. Some selected computational examples are given. No use is made of the latest works published abroad and based on analogous considerations with regard to the utilization of the curves of pore distribution (RZhMekh, 1954, abstract 2220; Collis-George N., Soil Sci., 1953, Vol 76, pp 239-250, etc.). Bibliography: 10 references.

Card 4/4

CIA-RDP86-00513R001445230002-0 "APPROVED FOR RELEASE: 06/20/2000

14-1-514 Translation from: Referativnyy Zhurnal, Geografiya, 1957, Nr 1, BUNGAINEN, V.V. p. 57 (USSR)

Romanov, V. V.

Calculation of Evaporation According to a Simplified AUTHOR:

Method of Thermal Balance (Raschet isparentya po TITLE:

uproshchennomu metodu teplovogo balansa)

Tr. Gos. Gidrol. in-ta, 1956, Nr 54 (108), pp. 75-79

The problem consists in finding a solid basis for a PERIODICAL:

simplified method of calculating evaporation for a period of about a month and more according to the ther-ABSTRACT:

mal balance of the underlying surface. For such periods

the following equation was made:

 $U = (R_{\sigma} - Q_{\pi})/60(1+0.64 \Delta T/\Delta e),$ where U = evaporation, m.m/hour; Ro = the radiation

balance of the surface, cal/hr cm²; $Q_n =$ the heat flow through the surface of the soil, cal/hr cm²; $\Delta =$ the

Card 1/3

14-1-514

Calculation of Evaporation According to a Simplified Method of Thermal Balance

he difference between the absolute humidity of the air at 2 heights (average per hour), md; T = the difference between the air temperature at the same altitudes as an hourly average. The last two quantities may be obtained from readings of thermographs and hygrographs placed at two different levels, instead of using the expensive, long range apparatus necessary for calculacan either be tion of shorter periods. The quantity discarded or calculated from data obtained by observation of soil temperature. The radiation balance $_{-}$ R $_{\odot}$ O , where R n = the absorbed radiation and $R_{\sigma} = R_{\pi}$ $E_{\ni ob}$ = the effective soil radiation, is calculated according to standard metereological observations. Evaporation is calculated by formula (1), and the quantities obtained for hourly evaporation are totaled up for a 24 hour period and multiplied by the number of days in a given month. Between 1951 and 1953, calculation of evaporation at one of the marshy areas in the upper

Card 2/3

14-1-514

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Calculation of Evaporation According to a Simplified Method of Thermal Balance

Leningradskaya oblast' showed that the average evaporation of the total area during the May-September periods for the 3 years was 410 mm. Compari with the figures given for the water balance showed a discrepancy of 3.5% for 1951, but was less than 1% for the 3 years. The advantage of the proposed method consists in the fact that it requires only little work and inexpensive apparatus.

A. B.

ASSOCIATION: State Hydrological Institute (Gos. gidrol. in-t.)

Card 3/3

ROMANOV.	v.v.	drained and undrained	swamps. Trudy	GGI no.60:20-42	
	157.		Swamps)	(MIRA 10:12)	

GONCHAROVA, V.I.; ZAV'YALOVA, I.N.; PETROVA, I.A.; ROMANOV, V.V.; RYVKINA, V.B.

Some problems in the hydrology; of swamps. Trudy GGI no.60:43-76 *57.

(Swamps) (Hydrology) (MIRA 10:12)

ROMANOV					
	Role of wind	s in the evapo	ration proce	es from swamps	Trudy GGI no.60: (MIRA 10:12)
	77-85 '57.	Evaporation)	(Swamps)	(Winds)	

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ROMAN	ov, v. v.			
"Wate	r Balance of Swamps	in the European Part	s of the USSR"	
report Lening	presented at the 3r	d All-Union Hydrolog	rical Congress, 7-17 Oct	1957,
(Izv.	Ak Nauk SSER, ser ge	ograf., 3, pp3-9, '5	8)	
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IZRAEL', Yu. A.; KOLESNIKOVA, V. N.; ROMANOV, V. V.; SOYFER, V. N.

Tritium content in glaciers. Dokl. AN SSSR 156 no. 1:72-73
My 164. (MIRA 17:5)

1. Institut prikladnoy geofiziki Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSSR, Institut matematiki AN UzbSSSR i Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii Gosudarstvennogo geologicheskogo komiteta.

ROMANOV, Vladimir Vasil'yovich; IVANOV, K.Ye., doktor geogr. nauk, otv. red.; DERYUGINA. V.N., red.; SERGEYEV, A.N., tekhn. red.

[Evaporation from swamps in the European part of the U.S.S.R.]
Isparenie s bolot Evropeiskoi territorii SSSR. Leningrad,
Gidrometeoizdat. 1962. 227 p. (MIRA 15:9)
(Swamps) (Evaporation)

KUZ'MIN, Prokopay Pavlovich; ROMANOV, V.V., kand. tekhn. nauk, otv. red.; DERYUGINA, V.N., red.; BRAYNINA, M.I., tekhn. red.

[The process of the melting of snow] Protsess taianiia snezhnogo pokrova. Leningrad, Gidrometeor.izd-vo, 1961. 344 p.

(Thawing) (Snow)

BULAVKO, Arseniy Grigor'yevich; RCMANOV, V.V., kand. tekhn. nauk, red.; BLINNIKOV, L.V., red.; ZARKH, I.M., tekhn. red.

[Effect of the drainage of swamps on the elements of water balance in rivers of the White Russian Polesye] Vliianie osusheniia bolot na elementy vodnogo balansa rek Belurusskogo Poles'ia. Pod red. V.V.Romanova. Moskva, Gisdrometeor. izd-vo, 1961. 150 p. (MIRA 14:6)

(Polesye--Rivers)

ACCESSION NR: AT4004735

8/2922/63/007/000/0284/0288

AUTHOR: Romanov, V.V.

TITLE: Variation in the water and heat balance of swamps during their reclamation

SOURCE: Vses. nauchn. meteorologich. soveshch. Trudy*, v.7. Fizika prizemnogo sloya. Leningrad, 1963, 284-288

TOPIC TAGS: meteorology, swamp evaporation, swamp reclamation, heat transfer, heat balance, radiation balance, micrometeorology, hydrometeorology, water balance, swamp thermal equilibrium

ABSTRACT: Since about 10% of the Soviet Union consists of swampy areas, the study of swamp water and heat balance and the changes after reclamation contributes significantly to the knowledge of the moisture and heat transfer process over the Soviet Union. The heat balance method is applied to this problem. The evaporation value for one growth season for oligotrophic and marshy swamps is established for the various meteorological stations. Prior studies of water expenditure do not assure maximum efficiency of soil cultivation. It is more useful to study what water expenditure can assure a maximum of crops and what methods are needed to maintain the desired water

ACCESSION NR: AT4004735

expenditure level. Of the 4 factors determining evaporation intensity, only the quantity of energy flow and the phases of plant development are judged important. Seasonal evaporation calculations indicate a definite correlation between quantity of evaporation and precipitation. Upon reclamation, but prior to agricultural use, heat expenditure for evaporation decreases 25-35% and the turbulent heat flow increases twofold. Evaporation from reclaimed areas put to agricultural use varies with a number of factors. It is proved that the evaporation quantity of the reclaimed swamps is 92-99% of the evaporation quantity of the marshy swamps. The intensive cultivation of the latter does not influence the water and, consequently, heat balance over an average of many years. A significant redistribution of the balance in seasonal terms for reclaimed areas under cereal crops does occur. The evaporation quantity for reclaimed areas under cereal crops is compared with that under perennial grasses. Orig. art. has: 4 tables.

ASSOCIATION: GGI

Card 2/3

ROMANOV, Vladimir Vasil'yevich; POPOV, I.V., otv. red.; SHATILINA;

M.K., red.; BRAYNINA, M.I., tekhn. red.

[Hydrophysics of swamps] Gidrofizika bolot. Leningrad, Gidrometeor. 1zd-vo, 1961. 356 p.

(Swamps)

Trudy GGI	s in the water ba no.89:5-36 160. t bogs)	lance of bogs in dry and (Water, Underground)	wet years. (MIRA 13:10)

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SOURCE CODE: UR/0369/66/002/006/0621/0623 AP700417-ACC NR: AUTHOR: Drits, M. Ye.; Kadaner, E. S.; Romanov, V. V. ORG: Institute of Metallurgy im. A. A. Baykov AN SSSR, Moscow (Institut metallurgii AN SSSR) TITLE: Effect of copper and chromium on the corrosion properties of Al-Zn-Mg alloys SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 6, 1966, 621-623 base TOPIC TAGS: aluminum zine ragnesium alloy, magnesese containing alloy, zirconium containing alloy, copper containing alloy, chromium containing alloy, and corrosion resistance, miny, property, ether comosion, convosion rate, comosion resistant alloy mechanical Ingots of Al-Zn-Mg aluminum alloys containing (%) 5 Zn, 2.5 Mg, ABSTRACT: 0.2-0.5 Mn, 0.15 Zr, additionally alloyed with up to 0.75% Cu and/or 0.16% Cr were hot and cold rolled into 2.5 mm-thick sheets. The sheets were solution annealed at 450C, quenched, naturally aged for 7 days or artificially aged at 100C for 10 hr or at 140C for 24 hr, and then tested for mechanical properties and corrosion resistance. Corrosion tests were done in a solution of 30 g/l of NaC1 + 20 g/l of NaHCO3. The general corrosion rate was investigated on specimens fully submerged for 200 hr. The stress corrosion was investigated on specimens under a tensile stress equal to 90% of the yield strength for 500 hr. The stressed alloys, without Cu or Cr additions, aged at 100 and 140C UDC: none Card 1/2

ACC NR: AP7004179

failed after 45-68 and 66-124 hr, respectively. Addition of 0.03% Cu increased the life of the specimens of the alloys aged at 140C to 91-131 hr but had a negligible effect on alloys aged at 100C. Chromium additions increased the stress corrosion of the alloys more than copper additions, expecially of the alloys aged at 100C. Chromium also lowered the corrosion rate, while copper accelerated it in unstressed specimens. In combined alloying with Cr and Cu, additions of 0.3% Cu to alloys with a constant Cr content increased the life of the alloy specimens to more. than 500 hr. An alloy containing 0.5% Cu aged at 100C for 100 hr had the highest stress corrosion resistance (more than 550 hr). The stress corrosion of all other alloys increased with aging at 140C. Copper additions increased the stress corrosion resistance of Al-Zn-Mg alloys with chromium substantially more than that of alloys without chromium. For example, 0.3% copper addition had practically no effect on the life Al-5% Zn-2.5% Mg-0.5% Mn-0.15% Zr, while the same addition of copper to the alloy with 0.16% Cr increased its life by several times, even at a lower (0.2%) manganese content. Combined alloying with Cu and Cr increased the tensile strength of the initial alloy from 48.5 to 51.7 kg/mm², the yield strength from 38.5 to 40.5 kg/mm², and the Orig. art. has: 2 tables. [MS] elongation from 13.1 to 31.72.

SUB CODE: 11/ SUBM DATE: 08Jun66/ ORIG REF: 001/ OTH REF: 001/ ATD PRESS: 5115

Card 2/2

13

L 17931-65 ENT(m)/EWA(d)/EWP(t)/EWP(b) Pf-4 AFTC(p)/ASD-3/AFFTC JD/HW

ACCESSION NR: AR4048227 S/0137/64/000/009/D021/D021

SOURCE: Ref. zh. Metallurgiya, Abs. 9D132

AUTHOR: Kogos, A. M., Romanov, V. V.

TITLE: Mills built by VIIIMETMASh for cold rolling of thin and very thin strips

CITED SOURCE: Tr. Vses. n.-i. i proyektno-konstrukt. in-ta metallurg. mashinostr., sb. 12, 1964, 48-66

TOPIC TAGS: cold rolling, rolling mill, thin strip

TRANSLATION: The problem of producing thin and very thin strips was solved in the VNIINLTMASh by building cold rolling mills of two types of construction. The first type was designed for narrow strips with a ratio of strip width to its minimum thickness of b/hmin 4000. For narrow strips, 4-roller mills were built with feed drive through supporting rollers. The second type of mill is designed to roll strip with a ratio b/hmin from 4000 to 30000. To this end, mills were built with a multiroller construction. The construction of both the

Card 1/2

L 17931-65
ACCESSION NR: ARHOH8227

four and multiroller mills was examined in detail.

SUB CODE: MM ENCL: 00

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

TONGUR, V.S.; VLADYCHENSKAYA, N.S.; ROMANOV, V.V.; VYSHEPAN, Ye.D.

Characteristics of RNA not extract able by pH 6,0 phenol from Escherichia coli. Biul. eksp. biol. 1 med. 57 no. 2:65-68 (MIRA 17:9)

1. Laboratoriya biokhimii nukleinovykh kislot Instituta biologicheskoy i meditsinskoy khimii AMN SSSR. Predstavlena deystvitel'nym chlenom AMN SSSR V.N.Orekhovichem.

KIRICHENKO, L.G. (Kislovodsk); ZHELEZNYAK, G.A., uchitel¹ (Selo Andreyevka, Poltavskaya oblast¹); Al¹SHITS, G.I. (Borovichi, Novgorodskaya oblast¹); RCMANOV, V.Ya. (Sverdlovsk)

Letters to the editor. Zdorov¹e 9 no.2:29 F ¹63. (MIRA 16:3)
(HYGIENE)

ROMANOV, V.Ya. (Polevskoy, Sverdlovskaya oblst')

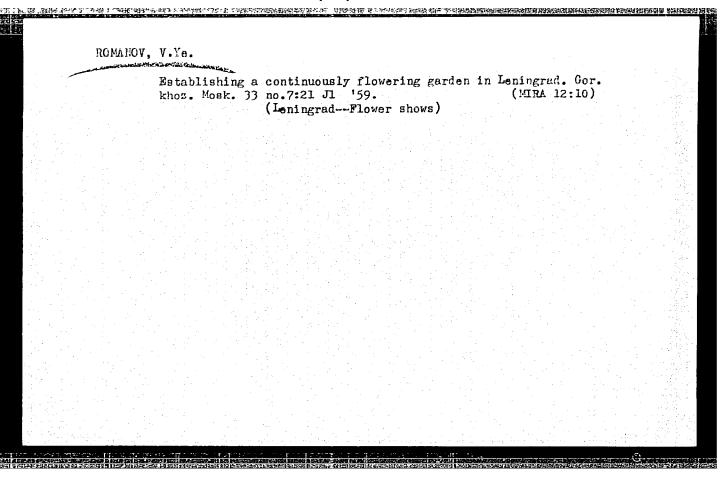
Our Severski. Zdorov'e 5 no.4:11 Ap '59.

(POLEVSKOY--PUBLIC HEALTH)

(MIRA 12:4)

popopopopopo Biberma	AN, L.M.; ROMANOV, V.Ye.
	On the mechanism of formation of continuous background in the emission spectrum of hot gases. Opt. i spektr. 3 no.6:646-648 D '57. (MIRA 11:2)

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andronii Alabaria Alabaria	Greenbelts, parks and landscape gardening in Leningra Mosk. 34 no.10:28-29 0 '60. (Leningrad-Landscape gardening)	ad. Gor. khoz. (MIRA 13:10)
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Romanav, V. Fe.

51-6-15/25

2000年4月,2000年1月1日的1000年1000日的1000日

AUTHORS:

Biberman, L. M., and Romanov, V. Ye.

TITLE:

On the Mechanism of Formation of Continuous Background in the Emission Spectrum of Hot Gases. (O mekhanizme obrazovaniya nepreryvnogo fona v spektre izlucheniya goryachikh gazov.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol. III, Nr. 6, pp. 646-648. (USSR)

ABSTRACT:

It is usually assumed that continuous background in the emission of hot gases is due to recombination and radiation of electrons in the Coulomb fields of ions. There is, however, a systematic difference between the theoretical results calculated assuming the above process and experimental values. Such a difference is particularly noticeable in high-pressure arcs. The calculation of theoretical results based on the assumption of recombination emission (Ref.1) is thus only approximate. The present authors show that the systematic difference referred to above is due to neglection of radiation of electrons when moving in

Card 1/4

On the Mechanism of Formation of Continuous Background in the Emission Spectrum of Hot Gases.

the field of neutral atoms (the so-called free-free transitions). The present authors regard the latter process as more important than recombination and radiation in the fields of ions. Chandrasekhar and Breen (Ref.12) discuss the problem of radiation of an electron in the field of a hydrogen atom in their studies of solar atmosphere. In a gas containing more complex atoms radiation of electrons in the atomic fields is even more effective than in hydrogen gas, and it is this process that accounts essentially for background emission in hot gases. Following Ref. 12 the authors neglect exchange and polarization of atoms by the fields of moving electrons, and they calculate the coefficient of absorption per one neutral atom and one bar of electron pressure, assuming Maxwell distribution of electron velocities. Born approximation for the wave-functions was used, and the charge density in a complex atom was approximately

Card 2/4

51-6-15/25

On the Mechanism of Formation of Continuous Background in the Emission Spectrum of Hot Gases.

represented by a hydrogen-like distribution. Ιt was found that the coefficient of absorption for a free-free transition of an electron in a field of a mercury atom is about two orders higher than the corresponding coefficient for hydrogen. increasing absorption is due to a quadratic dependence of probability of absorption on the intensity of atomic field. As a concrete example, mercury spectrum of very-high-pressure lamps was studied. The table on p.648 gives the experimental values (col.6), and theoretical values obtained by Unsold (Ref.1), Elenbaas (Ref.4) and the present authors (cols. 7,8 and 9 respectively) of the optical density of emission of four mercury lamps. Because of strong frequency dependence of the theoretical formula obtained by the present authors the values given in the table refer to only one wavelength of 6500 X. The table shows clearly that the best agreement between experiment and theory is shown by

Card 3/4

51-6-15/25 On the Mechanism of Formation of Continuous Background in the Emission Spectrum of Hot Gases.

the theoretical values obtained by the present authors. The authors thank Professor V. A. Fabrikant for his interest and criticism. There is 1 figure, 1 table and 14 references, of which 3 are English, 10 German and 1 Dutch.

ASSOCIATION: Moscow Power Institute. (Moskovskiy energeticheskiy institut).

SUBMITTED: March 29, 1957.

AVAILABLE: Library of Congress.

Card 4/4

S/051/62/012/001/013/020 E032/E414

AUTHOR:

Romanov, V, Ye.

TITLE

On the calculation of the cross-section for electron

free-free transition in the field of a neutral

hydrogen atom

PERIODICAL: Optika i spektroskopiya, v.12, no.1, 1962, 111-113

TEXT: S. Chandrasekhar and F. Breen (Ref.1: Astrophys. J., v.103, 1946, 41) were first to report accurate numerical calculations showing that electron free-free transitions in the field of a neutral hydrogen atom make the principal contribution to the absorption cross-section in the region $\lambda > 10000 \, \text{Å}$. They also showed (Ref.2: Astrophys. J., v.104, 1946, 431) that it is sufficient to consider dipole transitions only. These are due to terms such as

(0,
$$x_0^2 | \ddot{\varrho} | 1$$
, x_1^2) and (1, $x_0^2 | \ddot{\varrho} | 0$, x_1^2).

The present author has used the Hulten variational method to calculate the absorption cross-section. For $\psi=0$, the trial Card 1/3

S/051/62/012/001/013/020 E032/E414

On the calculation of ...

function was taken in the form suggested by Huang (Ref. 4: Phys. Rev., v.76, 1949, 1878);

$$\chi_{0}^{2}(x^{2}, \theta) = \Lambda \left[\sin x\theta + (\lambda + be^{-\theta})(1 - e^{-\theta})\cos x\theta \right]$$
 (5)

For b = 1, the trial function was taken to be

$$\chi_{1}(x^{2}, \beta) = B(1-e^{-\beta}) \left[\frac{\sin x\beta + (1-e^{-\beta})^{2}(\mu + ae^{-\beta})\cos x\beta}{x\beta} \right]$$

$$\cos x\beta + (\mu + ae^{-\beta})\sin x\beta$$
(6)

Calculations based on the above functions gave good agreement with the phases calculated numerically in Ref.1. The final expression for the cross-section is

Card 2/3

On the calculation of ...

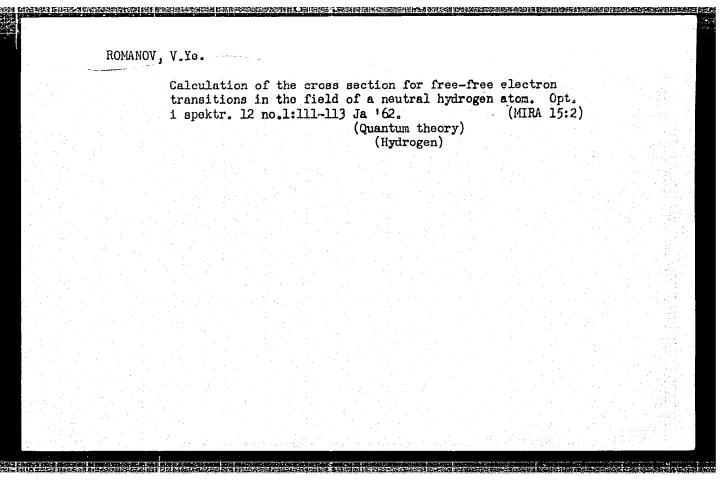
S/051/62/012/001/013/020 E032/E414

$$\sigma = \frac{0.43 \cdot 10^{-25} \cdot Q^{5/2}}{\beta^{6}} \left\{ e^{-\beta^{2}(p-1)} \left(\frac{\beta^{4}}{p} - \frac{2\beta^{2}}{p^{2}} + \frac{2}{p^{3}} \right) + e^{-\beta^{2} \cdot p} \left(\frac{\beta^{2}}{2p^{2}} + \frac{2}{p^{3}} \right) + \frac{3\sqrt{p}}{4p^{2}} \beta \bar{\Phi} (\beta\sqrt{p}) \right\} \frac{cm^{4}}{dyne}.$$
 (8)

where p=1+(0.21/9), $\theta=5040/T$, $\beta^2=h_0/kT$ and $\phi(x)$ is the error integral. This formula agrees with the calculations reported in Ref.1 and 2 to within 10 to 15%. There are 2 tables and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications are quoted in the text.

SUBMITTED: January 31, 1961

Card 3/3



S/139/62/000/004/007/018 E032/E514

40005

AUTHOR:

Romanov, V.Ye.

TITLE:

Calculation of the absorption cross-section of a free electron in the field of a neutral hydrogen atom

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.4,

1962, 91-97

It is pointed out that one of the difficulties of solving this problem, apart from the considerable numerical difficulties, is the solution of the radial part of the correspond-ing wave equation. Following a suggestion of L. M. Biberman the author has used a variational method in which the wave function of an incident electron with $\ell=0$ is computed with the aid of the trial function (Huang. Phys. Rev., 76, 1878, 1949):

 $\chi_{o}(x,\rho) = A[\sin x \dot{\rho} + (\lambda + be^{-\rho})(1 - e^{-\rho})\cos x \dot{\rho}], \quad (11)$ where x = ka; $\rho = r/a$; $a = h^{2}/4\pi^{2}me^{2}$. Substitution of this trial

function into the expression

 $2\left(1+\frac{1}{6}\right)e^{-2\theta}\chi_{o}(x,\rho) d\rho$, (13)

Card 1/3

Calculation of the absorption ... S/139/62/000/004/007/018 E032/E514

yielded a quadratic equation relating the unknown parameters $\,\lambda\,$ and b. Application of the Hulten conditions

$$I = 0; \quad \frac{\partial I}{\partial b} = 0 \quad \text{with} \quad \begin{array}{l} \lambda = \tan \eta_0, \\ A = \cos \eta_0, \end{array}$$
 (14)

was then used to determine the parameters λ and b and hence the required phase η . The resulting values for the phase were found to be in excellent agreement with the exact numerical calculations carried out by S. Chandrasekhar and F. Breen (The Astrophysical Journal, 104, 431, 1946). In the case of $\ell=1$, use was made of a trial function of the form

$$\chi_{1}(x, \ell) = B(1-e^{-\ell}) \left[\frac{\sin x\rho + (\mu + ae^{-\ell})(1 - e^{-\ell})^{2} \cos x\rho}{x\rho} \right] - \cos x\rho + (\mu + ae^{-\ell}) \sin x\rho , \qquad (16)$$

and the computed phases η_1 were again found to be in good agreement with the Chandrasekhar-Breen calculations. The $\beta=0,1$ wave functions and the phases η_0 and η_1 were then used to compute the acceleration matrix elements which enter into the expression for the absorption cross-section for dipole (0-1) and Card 2/3

Calculation of the absorption ... 5/139/62/000/004/007/018 E032/E514

(1-0) transitions. The final results for the absorption cross-section are found to agree with the numerical calculations of Chandrasekhar and Breen to better than 10% (temperature range 7200-2520°K). It is stated that the exchange and polarization effects will be taken into account later. There are 3 tables.

ASSOCIATION: Moskovskiy tekstil'nyy institut

(Moscow Textile Institute)

SUBMITTED: February 2, 1961

Card 3/3

	V.Ye., gidrotekhn					
	Long-furrow irriga	ation. Gidr. i	mel. 13 no.4:	3-9 Ap '61.	14 : 4)	
		(Bataysk regio	n-Irrigation)			

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ROMANOV	, Ya.							
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USSR/Human and Animal Morphology - Normal and Pathological. Pathological Anatomy.

: Ref Zhur Biol., No 23, 1958, 106036 Abs Jour

: Rummnov, Ya.M. Author

Ivanovo Medical Institute Inst

: Dynamics of the Morphological Changes of the Storach Wall Title

and Its Intramural Nervous Apparatus in an Experimentally

Induced Ulcerative Process

: Sb. nauchn. tr. Ivanovsk. med. in-ta, 1957, vyp. 12, 118-Ori; P b

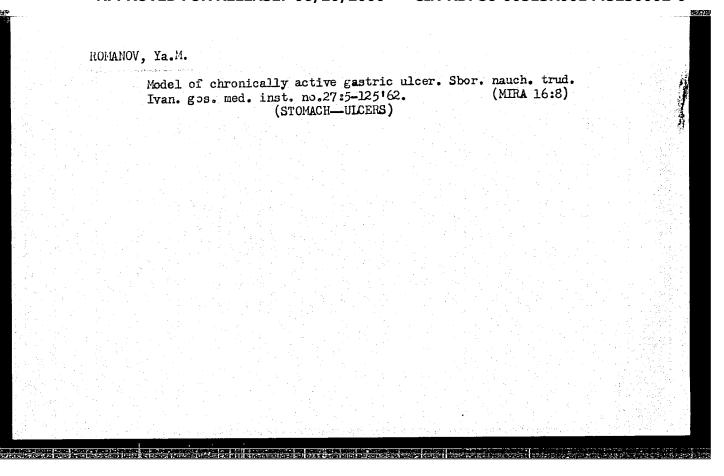
122

: In experiments on 20 dogs, in which sodium salicylate was Abstract

introduced into one of the arteries leading to the stomuch, it was demonstrated that, one hour after the operation, manifestations of irritation in the storach wall

and its intramural nervous apparatus are obserced.

Card 1/2



ROMANOV, Ya.M. (Ivanovo)

Pathomorphological changes and gastric disorders in dogs in experimental peptic ulcer. Pat.fiziol. i eksp.terap. 3 no.6:63 N-D '59.

(MIRA 13:3)

1. Iz Ivanovskogo gosudarstvennogo meditsinskogo instituta. Nauchnyy konsul'tant prof. S.S. Foltyrev.

(PEPTIC ULCER experimental)

(Voronezh ProvinceEfficiency, Industrial)		Mech Ag	enization '59. (Voronezh			(MTR	10.8:38 12:12)		
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RUMANOV, Ia

Aldanskaia ekspeditsiia Dobroleta. Zaldan expedition of Dobroletz. (Vestnik vozdushnogo flota, 1926, no. 4, p.28-32).

DLC: TL504.V45

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

ROMANOV, Ya.M., dotsent

Functional disorders of the small intestine in experimental stomach ulcers. Sbor. nauch. trud. Ivan. gos. med. inst. no.25: 35-33 162. (MIRA 17:5)

1. Ivanovskiy gosutarstvennyy meditsinskiy institut (rektor - dotsent Yast. Romanov); nauchnyy konsultant - prof. S.S. Feltyrev.

DEN HILDER BEGER LEGERARITETET DE LE BENEROLE BERER BESTELLE BEST

hOMARIOV, Ya.M., dotsent; ISAKHANOV, M.P., dotsent

Organization and some results of the aid to the public health organs from the staff of Ivanovo Medical Institute. Zdrav. Ros. Feder. 5 no.12:23-26 D '61. (MIA 15:1)

1. Iz Ivanovskogo meditsinskogo instituta (rektor - dotsent Ya.M., Romanov).

(IVANOVO PROVINCE__PUBLIC HEALTH)

ANAN YEV. S.L., prof., obshchiy red.; KURPOVICH, V.P., kand.tekhn.nauk, obshchiy red.; GROMOV, I.G., nauchnyy red.; ROMANOV, Ya.N., red.; SEMENOVA, Ye.P., tekhn.red.

[Workability of structures] Tekhnologichnost' konstruktsii.

Moskva, Dom tekhniki, 1959. 452 p. (MIRA 12:8)

(Machinery-Design and construction)

ROMANOV, Ye., inzh.; PUNSHTEYN, E., inzh.

PZP-3 movable grain loader. Muk.-elev.prom. 26 no.7:11 J1 (60.

1. Gosudarstvennyy institut Promzernoproyekt. (Loading and unloading)

		Ye., gvar						
		They have 38 no.19:6	been awarded	decorations	by brother	nations.	Sov.voin. (MLRA 10:1)	
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ROMANOV, Ye., inzh.; TSIRLIN, I., inzh.

Grain releasing system for loading railroad cars through the upper hatches. Muk.-elev. prom. 27 no.9:18-20 S '61. (MIRA 15:2)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy mukomol'no-krupyanoy i kombikormovoy promyshlennosti i elevatornoskladskogo khozyaystva.

(Grain elevators) (Grain--Transportation)

	ROMANOV,	Ye.,	inzh.	*							
		Grain	cleaner.	Mukelev. pr (GrainClea	om. 24	no.7:31	Л	¹58 .	(MIRA	11:10)	
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ROMANOV, Ye., mashinist ukladchik asfal'tobetona; SHKARIN, B.A., inzhener, konsul'tant; TAMAROVICH, M.A., redaktor; GUROVA, O.A., tekhnicheskiy redaktor.

[Quicker, better, cheaper; my practice in spreading asphalt concrete]

Bystree, luchshe, deshevle; moi opyt ukladki asfal'tobetona. Moskva,

Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. (MLRA 8:1)

(Pavements, Asphalt)

ROMANOV, e. I., Engineer

"Induction Heating of Steel Blanks for Forging and Stamping of Bearing Races." Sub 8 Jun 51, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

VASIL'YEV, O.F. (Novosibirsk); VOYHOV, A.K. Novosibirsk); ROMANOV, Ye.
M. (Novosibirsk)

Experimental investigation of quicksand flow in a stratum.

Izv. AN SSSR. Mekh. i mashinostr. no. 2:179-182 Mr-Ap '64.

(MIRA 17:5)

NEYMAN. V.B.; ROMANOV, Ye.H.; CHERNOV, V.M.

Ivan Csipovich Erkovskii. Zem. i vsel. l no.4:63-64, Jl-Ag 65.

(MIRA 18:12)

1. Chleny Vsesoyuznogo ostronomo-geodezicheskogo obshchestva.

UR/0126/66/022/003/0415/0419 ACC NR: AP6032620 SOURCE CODE: AUTHOR: Yesin, V. O.; Levit, V. I.; Romanov, Ye. P.; Smirnov, L. V. Institute of the Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR) TITLE: Orientation, purity and perfection of molybdenum single crystals grown by electron-beam zone melting SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 3, 1966, 415-419 TOPIC TAGS: single crystal, molybdenum single crystal, single crystal growing, electron beam wante melting, single crystal orientation, single crystal purity, single crystal structure, MOLYBDENUM, METAL ZONE MELTING

ABSTRACT: Molybdenum single crystals, 3 mm in diameter and 60—120 mm long, were grown by the zone-melting method in a vacuum of $10^{-6}-10^{-7}$ mm Hg with an electronbeam heat source. The initial material, polycrystalline commercial-grade (99.8%-pure) molybdenum wire had a ratio of resistivities at 285 and 4.2K equal to 20. The orientations of the single crystals was found to depend on the rate of growing or on the rate of molten zone travel. No clear relationship was established between the single crystal perfection (the maximum disorientation angle between the elements of macromosaic substructure, maxe') and the melting-zone speed at which the crystals were grown. A clear relationship, however, was found between the crystal perfection (max. θ') and its purity ($\rho_{285K}/\rho_{4.2K}$). The relationship can be empirically expressed

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